## In the Claims:

The following is a list of claims currently pending in this application and their current status. This listing of claims replaces all prior versions and listings in this application.

- (Currently amended) An apparatus for patterning a workpiece arranged at an image plane and covered at least partly with a layer sensitive to electromagnetic radiation, comprising:
  - a source emitting electromagnetic radiation onto an object plane.
- an SLM comprising a plurality of on-off object pixels, adapted to receiving receive and modulating said electromagnetic radiation at said object plane in accordance to an input with a pattern description and to relaying said electromagnetic radiation toward said workpiece.
- a synchronizer to synchronize the motion of the workpiece relative to a relayed the pattern description related from said SLM onto said workpiece, and
- an image-deflecting element arranged between said SLM and said workpiece adapted to deflect said relayed pattern description, wherein at least two pattern descriptions on said SLM are at least partly overlapping on the workpiece the modulation creates coherent sub-images on the workpiece and several sub-images are non-coherently superposed to create a final image.
- (Original) The apparatus according to claim 1, wherein said SLM comprises transmissive pixels.
- (Original) The apparatus according to claim 1, wherein said SLM comprises reflective pixels.
- (Original) The apparatus according to claim 3, wherein said reflective pixels are micromirrors.
- (Original) The apparatus according to claim 1, wherein said synchronization is performed to cause said relayed pattern description to impinge on a fixed area of said workpiece for an extended period of time.

 (Original) The apparatus according to claim 1, wherein radiation from said electromagnetic radiation source is prevented from impinging onto said workpiece while reloading said SLM with a new pattern description.

- (Original) The apparatus according to claim 6, wherein said radiation is deflected in order to be prevented from impinging onto said workpiece.
- 8. (Original) The apparatus according to claim 6, wherein said radiation is blocked in order to be prevented from impinging onto said workpiece.
- (Original) The apparatus according to claim 6, wherein said radiation source is switched off in order to prevent said radiation from impinging onto said workpiece.
- (Original) The apparatus according to claim 1, wherein successive pattern descriptions on said SLM are imaged onto said workpiece adjacent to each other.
  - 11. (Cancelled)
- (Original) The apparatus according to claim 10, wherein successive pattern descriptions on said SLM are non-overlapping on said workpiece.
- (Original) The apparatus according to claim 1, wherein successive pattern descriptions on said SLM are imaged onto said workpiece non-adjacent to each other.
- (Original) The apparatus according to claim 1, wherein said image deflecting element is a rotating prism.
- (Original) The apparatus according to claim 1, wherein said image deflecting element is a rotating reflective polygon.
- 16. (Original) The apparatus according to claim 15, wherein said rotating reflective polygon comprises at least three reflecting surfaces.
- (Original) The apparatus according to claim 1, wherein said pattern description on said SLM is changed while deflecting said relayed pattern description onto the workpiece.
- 18. (Currently amended) A method for patterning a workpiece arranged at an image plane and covered at least partly with a layer sensitive to electromagnetic radiation, comprising the actions of:
  - emitting electromagnetic radiation onto an object plane,

 receiving and modulating said electromagnetic radiation at said object plane in accordance te-an input with a pattern description by from an SLM comprising a plurality of on-off object pixels,

- relaying said modulated electromagnetic radiation toward said workpiece.
- deflecting a relayed pattern description from said SLM onto said workpiece.
- synchronizing the motion of the workpiece relative to said relayed pattern description from said SLM ente said workpiece, wherein at least two pattern descriptions on said SLM are at least partly overlapping on the workpiece, and
- imaging successive patterns onto said workpiece adjacent to each other, wherein said successive patterns are at least partially overlapping on said workpiece, and wherein said successive patterns create coherent sub-images on the workpiece and the successive sub-images are non-coherently superposed to create a final image.
- (Original) The method according to claim 18, wherein said SLM comprises transmissive pixels.
- (Original) The method according to claim 18, wherein said SLM comprises reflective pixels.
- 21. (Original) The method according to claim 20, wherein said reflective pixels are micromirrors.
- 22. (Original) The method according to claim 18, wherein said synchronizing is performed to cause said relayed pattern description from said SLM to impinge on a fixed area of said workpiece for an extended period of time.
- 23 (Original) The method according to claim 18, further comprising the action of
- preventing said radiation from said electromagnetic radiation source from impinging onto said workpiece while reloading said SLM with a new pattern description.
- 24 (Original) The method according to claim 23, wherein said radiation is deflected in order to be prevented from impinging onto said workpiece.
- 25 (Original) The method according to claim 23, wherein said radiation is blocked in order to be prevented from impinging onto said workpiece.

 (Original) The method according to claim 23, wherein said radiation source is switched off in order to prevent said radiation from impinging onto said workoiece.

## 27-29. (Cancelled)

- 30 (Original) The method according to claim 18, further comprising the action of:
- imaging successive pattern descriptions onto said workpiece non-adjacent to each other.
- (Original) The method according to claim 18, wherein said image deflecting element is a rotating prism.
- (Original) The method according to claim 18 wherein said image deflecting element is a rotating reflective polygon.
- 33. (Original) The method according to claim 32, wherein said rotating reflective polygon comprises at least three reflecting surfaces.
- 34. (Original) The method according to claim 18, further comprising the action of:
  - performing greyscale printing by time multiplexing the object pixels.
- 35. (Original) The method according to claim 18, wherein said synchronization is performed to write stamps onto said workpiece corresponding to pattern descriptions on said SLM, where said stamps defining sub-images together form a complete pattern.
- 36. (Original) The method according to claim 18, further comprising the action of:
- changing said pattern description on said SLM while deflecting said relayed pattern description onto the workpiece.
  - 37-39. (Cancelled)
  - 40. (Original) A method to form an image comprising the actions of:
  - providing a laser source,
  - scanning at least one beam from said laser source over a workpiece.
- modulating said at least one beam during scanning according to an input pattern data file, where said modulation of the beam creates a coherent sub-image on

the workpiece and several sub-images are non-coherently superposed to create a final image.

- 41. (Original) The method according to claim 40, further comprising the action of:
- destroying the interference between individual beams before impinging onto the SLM.
- (Original) The method according to claim 41, wherein said interference between individual beams are destroyed by means of adding or subtracting a shift in frequency.
- 43. (Original) The method according to claim 41, wherein said interference between individual beams are destroyed by means of adding or subtracting a portion of path length.
- 44. (Original) The method according to claim 40, wherein said at least one beam is modulated by means of an acousto-optic cell comprising an array of transducers.
- 45. (Original) The method according to claim 40, wherein said transducers are driven by a RF wave multiplied by an analogue signal.
- 46. (Original) The method according to claim 40, wherein said at least one beam is modulated by means of an SLM comprising a plurality of on-off pixels.
- 47. (Original) A method for forming an image onto a workpiece, comprising the actions of:
  - providing an electromagnetic radiation source,
- scanning at least one beam from said source over at least a portion of a spatial light modulator,
- modulating said at least one beam according to an input pattern data file, where said modulation of the at least one beam creates a coherent sub-image on the workpiece and several sub-images are non-coherently superposed to create a final image.
- 48. (Original) The method according to claim 47, further comprising the action of:

 reloading a new pattern description on at least one portion of said modulator while scanning a different portion of said modulator by said at least one heam

- 49. (Original) The method according to claim 47, wherein said SLM comprising a plurality of on-off pixels.
- (Original) An apparatus for forming a pattern on a radiation sensitive material comprising:
  - a source to form a radiation beam.
- a scanning element to scan at least one beam from said radiation source over said radiation sensitive material.
- a modulator to modulate said at least one beam during scanning according to an input pattern data file, where said modulation of the beam creates a coherent sub-image on the workpiece and several sub-images are non-coherently superposed to create a final image.
- (Original) The apparatus according to claim 50, further comprising an element to destroy the interference between individual beams before impinging onto the SLM.
- (Original) The apparatus according to claim 51, wherein the interference is destroyed by an element, which adds or subtracts a shift in frequency unequal for interferable beams.
- 53. (Currently amended) The apparatus according to claim 51, wherein the interference is destroyed by an element, which adds or subtracts [e] an unequal portion of optical path-length for interferable beams.
- (Original) The apparatus according to claim 51, wherein said modulator is an acousto-optic cell comprising an array of transducers.
- 55. (Original) The apparatus according to claim 54, wherein said transducers are driven by a RF wave multiplied by an analogue signal.
- (Original) An apparatus for forming a pattern on a radiation sensitive material comprising:
  - a source to form a radiation beam,
- a scanning element to scan at least one beam from said radiation source over a spatial light modulator,

 a modulator to modulate said at least one beam according to an input pattern data file, where said modulation of the beam creates a coherent sub-image on the workpiece and several sub-images are non-coherently superposed to create a final image.

- 57. (Original) The apparatus according to claim 56, where a new pattern description is reloaded on at least one portion of said modulator while scanning a different portion of said modulator by said at least one beam.
- 58. (Currently amended) An apparatus for patterning a workpiece arranged at an image plane and covered at least partly with a layer sensitive to electromagnetic radiation, comprising
  - a source emitting electromagnetic radiation onto an object plane,
- a modulator comprising a plurality of modulating elements, adapted to receive and modulating said electromagnetic radiation at said object plane in accordance tean input with a pattern description and to relay said electromagnetic radiation toward said workpiece,
- a synchronizer to synchronize the motion of the workpiece relative to a relayed pattern description from the SLM modulator onto said workpiece-and a loading of said input pattern description, and
- an image-deflecting element adapted to deflect said relayed pattern
  description on the workpiece, wherein at least two pattern descriptions on said SLM are
  at least partly overlapping on the workpiece the modulation creates coherent subimages on the workpiece and several sub-images are non-coherently superposed to
  create a final image.
- 59. (Currently amended) A method for patterning a workpiece arranged at an image plane and covered at least partly with a layer sensitive to electromagnetic radiation, comprising the actions of:
  - emitting electromagnetic radiation onto an object plane,
- receiving and modulating said electromagnetic radiation at said object plane in accordance to an input with a pattern description by a modulator comprising a plurality of modulating elements.
  - relaying said electromagnetic radiation toward said workpiece,

- deflecting a relayed pattern <del>description</del> from said modulator onto said workpiece.

synchronizing the motion of the workpiece relative to a relayed pattern description from said modulator onto said workpiece and a loading of said input pattern description, wherein at least two pattern descriptions on said SLM are at least partly everlapping on the workpiece the modulation creates coherent sub-images on the workpiece and several sub-images are non-coherently superposed to create a final image.